

## RACON 8, THT outside, 3.3 ± 0.6 N, 1 NO

## LBL\_NRFND

## **Description**

Our top-quality RACON 8 tactile switches – in dimensions  $8.4 \times 8.4 \text{ mm}$  – feature an unmistakeable click, high switching reliability, and a sealed contact system. That has made RACON the standard in many industries. Whether for automotive applications, systems with keycaps, or membrane keyboards, RACON impresses in the THT or SMT versions – for your application too.

RACON 8 tactile switches can be arranged individually, in rows or as key blocks. When used beneath membrane overlays, the RACON key switches should be combined with plungers. Suitable for the most important soldering techniques.

- > Soldering bath for THT versions
- > Reflow soldering for SMT versions
- > Vapor phase soldering for SMT versions
- > Manual soldering
- > Processing of the SMT designs with SMT automatic assembly machines
- > IMDS entry

# CE

## technical data

general		
Color	blue	direct links
Operating temperature, min.	-40 °C	> RAFI eCatalog
Operating temperature, max.	90 °C	
Storage temperature, min.	-50 °C	
Storage temperature, max.	85 °C	
illuminated	No	
Soldering time for manual	5 sec	
soldering, max.		
Soldering temperature for manual	350 °C	
soldering		
Soldering temperature for wave	260 °C	
soldering		
Soldering	Manual / wave	
Solder heat resistance according	DIN EN 60068-2-20	
to standard		
Packaging	Tube	
Packaging unit	60 pcs.	
net weight	0.7 g	

The information in this data sheet only contains general descriptions and / or performance features, which may not apply precisely as described to the respective application, and which my change due to further product enhancements. The technical data, illustrations and other information about our products are the mere results of individual technical testing. These descriptions and other product features are only binding if they expressly agreed upon at the time of the conclusion of a binding contract. In all other cases, we reserve the right to make technical changes as well as changes of availability. Pictures and other graphic illustrations are approximations only. All product names may be trademarks or brand names of the RAFI Group or any other sub-supplier of RAFI. The use of such by any third parties for their own purposes may infringe the rights of the respective entity holding those rights.

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RAFI GmbH & Co. KG

Ravensburger Str. 128-134 88276 Berg / Ravensburg Germany www.rafi-group.com, info.headquarters@rafi-group.com



Operating life 1,000,000 cycles B10 1,300,000 cycles

Degree of protection, front side, according to DIN EN 60529 IPx7

Degree of protection, rear side, according to DIN EN 60529 IPx7

MSL Moisture Sensitivity Level 1

Corrosive gas testing according to Yes

standard

Minimum order quantity (MOQ) 600 pcs.

RoHS compliant Yes

REACH compliant Yes

Component material Elastomer

Product code A1 country of origin DE

#### > mounting diameters

Outside dimension, length 8.4 mm 
Outside dimension, width 8.4 mm 
Outside dimension, height 8.4  $\pm$  0.1 mm 
Installation height 4.9  $\pm$  0.1 mm 
Grid, min. 8.9 x 12.7 mm

#### > mechanical data

Actuation function momentary contact function

Operating force, max. 8 N

Operating force, min.  $3.3 \pm 0.6 \text{ N}$ Switching travel  $0.34^{\pm 0.1} \text{ mm}$ 

Contact function 1 NO

Contact system Snap-action contact

SPST - Single Pole Single Throw

Contact material Gold Solderability Yes

Terminal on the rear THT outward

## > electrical data

Rated voltage, min.

Rated voltage, max.

Rated current, min.

Rated current, max.

O.1 A

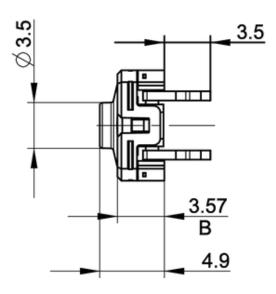
Rated power, max.

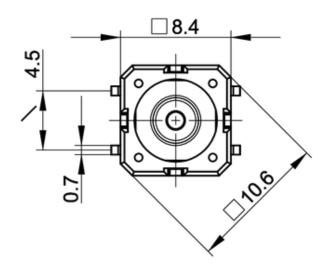
1 W



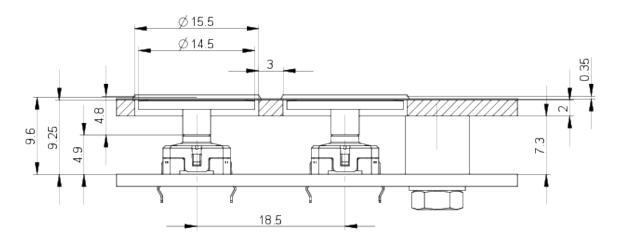
## drawings

## **Dimensioned drawing**



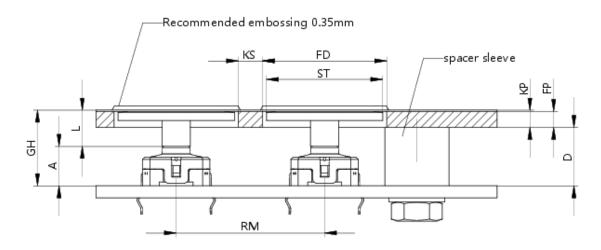


## System drawing

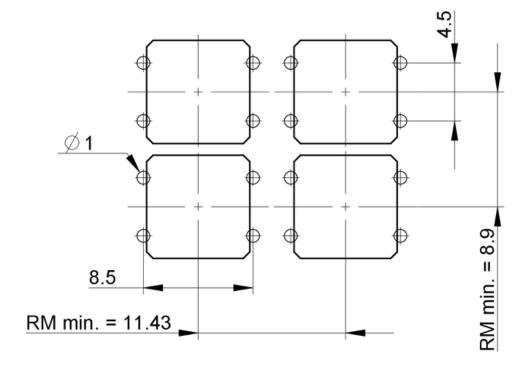




#### System drawing

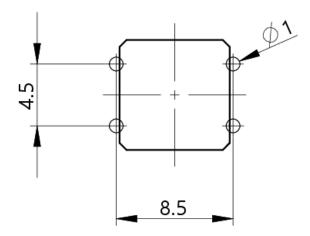


## **PCB** drawing



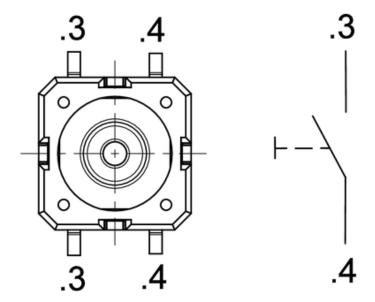


#### **PCB** drawing



PCB hole pattern component side

## Schematic diagram





#### **Product labeling drawing**

